



Confirmation of Product Type Approval

Company Name: SCHALLER AUTOMATION GMBH & CO. KG

Address: INDUSTRIERING 14 D-66440 BLIESKASTEL Germany

Product: Oil Mist Detector

Model(s): VISATRON VN2020 / VN2020 EX

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-0062104-PDA	04-OCT-2024	03-OCT-2029
Manufacturing Assessment (MA)	23-6047664	22-SEP-2023	21-SEP-2028
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Monitoring of oil mist concentration in crankcases of diesel/combustion engines and alerting of high concentration.

Description

Indication of high oil mist concentration in entire crankcase section or other engine locations.

Ratings

Power Supply: 24 V DC +/- 25%, max. 2 A.

Degree of Protection: IP 54.

Max. Air Consumption: 1.2 m³/h at 2 - 14 bar.

Service Restrictions

1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
2. The vacuum in the engine crankcase, caused by the extraction of gases, is not to exceed 2.5 mbar. See 4-6-5/13.1 of the Marine Vessels Rules..
3. VN2020 EX is designed for installation in the safe area. The optical radiation inside the sealed measurement section (flow channel) of VN2020 EX complies with the requirements of type of protection "op is" ref. IBEExU19ATEX 1048 and IECEx IBE 19.0010 with marking [Ex op is IIB T4 Gb].
4. ATEX certified equipment is not to be installed in hazardous areas on U.S. vessels unless it can be

proven to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard. USCG notice 01-12 (February 7, 2012).

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Each particular application is to be specifically approved in conjunction with the relevant engine type and installation.

Notes, Drawings and Documentation

Drawing No. 01, dimension drawing, Revision: 01, Pages: 1

Drawing No. 02, characteristics, Revision: 01, Pages: 2

Drawing No. 03, 183000 Manual VN2020-EX-V1.0, Revision: 1-0, Pages: 60

Drawing No. 04, Infrared Emitter - SFH 4855_EN, Revision: 1, Pages: 12

Drawing No. 05, Photodiode - BPW20RF, Revision: 1, Pages: 5

Drawing No. 06, Pressure Sensor - MPX5100, Revision: 1, Pages: 17

Drawing No. 07, Thermal Link XG Series, Revision: 1, Pages: 1

Drawing No. 08, 260064_01 - VN2020 IR TransmitterSchalt-Bestueckungsplan, Revision: 1, Pages: 5

Drawing No. 09, 1000198_03 - Visatron-VN2020 Display - Schalt-Bestueckungsplan, Revision: 3, Pages: 6

Drawing No. 11, 1000194_04 - VN2020 CPU Platine - Schalt-Bestueckungsplan-none3d, Revision: 4, Pages: 10

Drawing No. 12, 1000196_03 - VN2020 Terminal Box - Schalt-Bestueckungsplan, Revision: 3, Pages: 7

Drawing No. 14, 20190204_FB_8.2_027_Release_Notes_FW_VN2020, Revision: 1, Pages: 1

Drawing No. 15, VA_7.3_004e_Quality Assurance Measures for the Generation of Software, Revision: 1, Pages: 6

Drawing No. 16, UR-E10 test 1-7830_19-01-04 (Report No.: 1-7830/19-01-04; Report Date: 20 Feb, 2019; Lab: CTC advanced GmbH), Revision: 1, Pages: 64

Drawing No. 17, Environmental testing 1-7830_19-01-05 (Report No.: 1-7830/19-01-05; Report Date: 20 March, 2019; Lab: CTC advanced GmbH), Revision: 1, Pages: 37

Drawing No. 18, ATEX191048_engl_pc, Revision: 1, Pages: 2

Drawing No. 19, CoC_IECEX_IBE_19.0010_0, Revision: 1, Pages: 3

Drawing No. 20, inspection plan_V02, Revision: 1, Pages: 1

Drawing No. 21, DNV-GL_Zert_ISO9001_2020 English 160041-2014-AQ-GER-DAkkS, Revision: 1, Pages: 1

Drawing No. 22, IBExU19ATEXQ006_en, Revision: 1, Pages: 1

Drawing No. FB_7_1_011_Checkliste fuer Klassenzulassung, Schaller- Application Form for Class Admission, Revision: -, Pages: 1

Drawing No. FB_7_1_012_Function Test IACS UR-M67, Schaller- Function Test - IACS UR-M67 Rev.2,

Revision: -, Pages: 3

Drawing No. VN2020, Picture- VN2020, Revision: -, Pages: 1

Drawing No. IBEU19ATEX1048, ATEX Certificate, Revision: 03, Pages: 7

Drawing No. FB_7.1_012_V03, Function test report-IACS UR-M67 Rev.2 (Report No.: FB_7.1_012_V03; Report Date: 23 May, 2019; Lab: Schaller Automation GmbH & Co.KG), Revision: 03, Pages: 7

----- Reval. 2024-----

Drawing No. 183000 Manual VN2020-EX, 183000 Manual VN2020-EX-V3.0, Revision: V3.0

Drawing No. 1000198, 1000198_04 - Schalt-Bestueckungsplan-none3d, Revision: 04

Drawing No. 1000196, 1000196_04c - Schalt-Bestueckungsplan-none3d, Revision: 04c

Drawing No. 1000194, 1000194_05 - Schalt-Bestueckungsplan-none3d, Revision: 05

Drawing No. Release_Notes, 20240412_FB_8.2_027_V02_Release_Notes, Revision: V2.03

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 03/Oct/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

ABS Rules for Building and Classing Marine Vessels 2024:1-1-4/7.7, 1-1-A3, 1-1-A4, 4-2-1/7.2.1, 4-2-1/7.2.2, 4-2-1-A3, 4-6-5/13.1, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.13, 4-8-3/1.17.1, 4-8-3/13, 4-9-6/Tables 1A, 1B, 4-9-9/13.1, 4-9-9/15.7 (Table 1), 5C-8-A7/3.5.3, 5C-13-10/3.1.13(d)

International Standards

IACS UR E10 (Rev. 8, 2021) except the flame retardant test.

IACS UR M67 (Rev.2, 2015).

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read "Joseph W. Hill".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 17-Oct-2024 8:04

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.